Citizens' Advisory Commission Meeting Pueblo Colorado Minutes January 27, 2016

Members in Attendance: Irene Kornelly, Chair Terry Hart, Vice Chair Ken Griffin Doug Knappe, for Joe Schieffelin John Norton Ross Vincent Members Absent: Jeff Chostner Zak Pierce

Business

Minutes for the December 9, 2015 meeting were approved.

Colorado Department of Public Health and Environment Permitting Update Doug Knappe, Unit Leader

Hazardous Materials and Waste Management Division

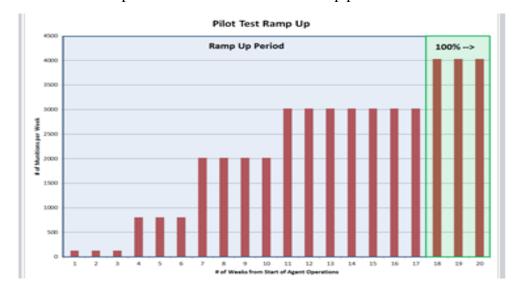
The state received notice that Explosive Destruction System (EDS) would be temporarily closed at the conclusion of this campaign once it is cleared for the presence of any mustard agent. They are moving through the leakers campaign. The state is working on a number of permit modifications. The facility construction certification continues.

Pueblo Chemical Agent-Destruction Destruction Program Update What does Pilot Testing Look Like? John Jackson, Plant Support Specialist

Start of Pilot Test / Operations

- Methodical, safe and compliant Operations
- Day 1 process five munitions (155mm) to validate plant, paper and people
- Initial processing at 10% rate, single-line ramp up for ~20 days.
- Joint Test Group review of operating conditions
- Senior review team
 - PCAPP, ACWA, Army Material Systems Analysis Activity (AMSAA)

Convened when unacceptable results are found to develop path forward for continued operations



Projectile/Mortar Disassembly (PMD)

- Objectives
 - Certify monitoring protocol for disposition of dunnage i.e., Over Packed Pallets (OPPs) relative to agent
 - Collect and assess data on reject rates
 - Demonstrate energetics removal/handling and disposition with the PMDs to support the operating schedule
- Approach PMD
 - o Utilize SOP-PT-W0001 with predetermined 155mm munition lots
 - o Perform Modified Ammunition Vehicle dock receipt and monitoring of OPPs
 - o Perform single-line ramp up of Explosion Containment Room (ECR) with each Operations crew
 - o Perform PMD throughput runs and document rejects, off-normal conditions

MWS & MTU

- Objectives Munitions Washout System (MWS)/Munitions Treatment Unit (MTU)
 - Confirm maximum munitions' body weight limit at the Drained Munitions Weigh Station (DMWS) to allow confirmation of breached munition
 - Establish set points to achieve munition body cleanliness (design of experiments)
 - Recycle munitions bodies, control paint chips, ash dust
 - Demonstrate loss of paint removal system
- Approach MWS/MTU
 - Calculate reject weight set point using first 59 washed/rewashed munition (mean + 3 standard deviations)
 - Monitor first MTU Bin headspace for agent (<0.003mg/m3), COPCs, and dioxins/furans
 - Document DMWS weight variability and rejects for the next 325 projectiles make adjustments as required

Agent Neutralization Reactor (ANR)

- Objectives
 - Validate and define critical operating parameters for agent destruction
 - Agent destruction from 8.6 to 15 wt% agent concentrate
 - Demonstrate ANR operation with loss of agitator
 - Demonstrate throughput supports operating schedule
 - Demonstrate hydrolysate tank glove box operations
- Approach
 - Collect agent and agent wash water in agent water separator
 - Third week Process first ANR batch hot water, wash water, spent decon with UP TO 8.6%
 - Generate hydrolysate to holding tank for sampling
 - Fourth week transfer hydrolysate to 30-day storage tank
 - Perform ANR agent loading to 15 wt%
 - Perform loss of ANR agitator

Pilot Testing after first 30 days

- Off gas Treatment System (OTS)/Agent Filtration Area emissions monitoring
 - MWS/MTU full throughput demonstration
 - ANR full throughput demonstration
 - All Agent Processing Building processing systems operating
 - Loss of OTS bulk oxidizer
 - Perform a nine-day full rate demonstration
- Biotreatment Area (BTA) hydrolysate processing, demonstrate Brine Reduction System (BRS)

- Demonstrate removal of thiodiglycol, and other organics from hydrolysate
- Control fugitive odor emissions
- Process brine concentrate and recover water
- Validate BRS operating ranges and set points

Secondary waste processing at Supplemental Decontamination Unit/autoclave

- Demonstrate decontamination operations and waste handling
- Validate monitoring protocol for waste disposal to meet performance criteria

Perform Integrated Facility Demonstration

- Demonstrate integrated facility operations
- Generate and collect site-wide emissions data at a sustained processing rate

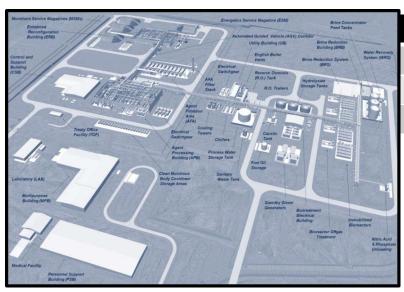
John Norton: For the first 30 days are you going do to the same number of tests and then ramp up? John Jackson: Yes, for about 3 week it gets all shifts working day and night.

Program Updates
Rick Holmes, Bechtel Project Manager
Gregory Mohrman, Site Project Manager
Col Thomas Duncan, PCD Commander
EDS End-of Campaign Status Update and Temporary Closure
Michael Strong, PCAPP Explosive Destruction System Site Project Manager

Safety

- Lost-workday case rate is 0.07
- The current Total Recordable Injury Rate (TRIR) is 0.40, which is well below the general industry average of 3.4 and the Waste Management Industry rate of 3.4

PCAPP Systemization – 96% Complete



As of December 2015 ERB 100% APB 100% BTA 83%

System	Complete	
UTILITIES	99%	
HVAC	99%	
FACILITIES	100%	

Countdown to Ops:

- Bid evaluation for waste disposal contracts underway
 - RCRA Managed Waste
 - Landfill Subcontract
- Scaffolding being removed
- Start six week practice run week of February 8

Initial Agent Operations ORR Status

Operational Readiness Review (ORR) work will be paced by Systemization work, primarily system turnovers.

ORR Documents	Total Required	Board Reviewed	Board
Affidavits	375	354	354
Criteria Review Approach Documents	375	264	250

Data current as of 22-Jan -2016

The final engineering review was completed in January; it is required by the Treaty. It is the last exercise required by the Treaty to start the Plant.

Salt Water Test Conclusions

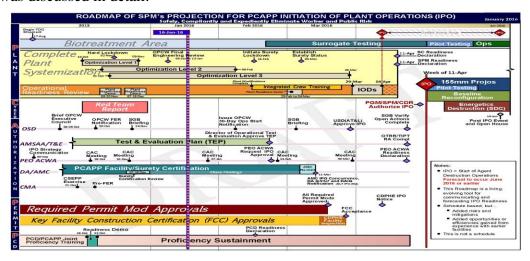
- Evaporator demonstrated operation at design rate salt feed of 120 gpm
- Distillate samples over the last three days of testing show that the distillate salt concentrations
 were well below threshold limits, and even below levels found in the make-up process water
 used to produce the salt water feed
- Test did not successfully demonstrate filter cake production
 - > Pump seal in leakage
 - > Crystallizer was unable to heat-up and concentrate the slurry enough to produce crystals within the allotted test period
- Test provided valuable hands-on operator experience and system operational data to be used in follow-on tests
- Test will be re-run in early February to generate salt crystals and demonstrate filter press operation

PCAPP United Way Campaign

- \$31,782 Employee Pledges
- \$32,500 Combined Corporate Pledges (Bechtel, AECOM, Battelle)
- \$64,282 2016 Grand Total Pledges

PCAPP employees pledged more than \$30,000 for the 2016 United Way campaign. A campaign was rolled out to entice employees to contribute. Total contributions were up \$2,000 from last year.

The Roadmap was discussed in detail.



Col Thomas Duncan, PCD Commander

The Department of Defense (DoD) will hold an audit the week of February 1, 2016, looking at safety, surety and other items.

The site hopes to transfer part of the property (Parcel 1) to PuebloPlex by the end of 2016.

The opening ceremony for the start of site operations is scheduled for June 14, 2016.

Michael Strong, PCAPP Explosive Destruction System Site Deputy Project Manager

Explosive Destruction System:

Temporary Closure Outline

- Submit 45-day notice to CDPHE (Done 10 Dec 2015)
- Complete destruction operations
- Decontaminate EDS door, vessel, and sump to the Vapor Screening Level and verify cleanliness using Minicans
- Remove, bag out, and air monitor with Minicams to the VSL carbon from Environmental Enclosure #1 filters
- Remove and dispose of all waste from H1102, EE#1, H1103, and remove roll offs
- Monitor H1102 and EE#1 to the VSL after 4 hours at 70 degrees F
- Document all closure activities in the operating record

Signaling the End of First Campaign

On January 15, 2016, PCAPP EDS reached a significant milestone when operators loaded and destroyed the last two 155mm problematic munitions.

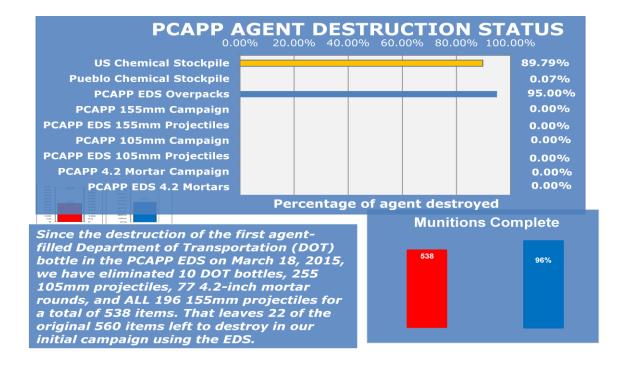
John Norton: How many were leakers of the 549?

Michael Strong: About 20%.

Ross Vincent: What happens to the EDS Unit?

Michael Strong: the Unit referred to as P2R will go back to Maryland. And the site will get a new one.

Pueblo Chemical Stockpile Destruction as of 25 January 2016



Subcommittee Updates -Permitting Working Group – Irene Kornelly Biotreatment Utilization Working Group (BUG) John Norton

Irene Kornelly (Permitting)

The Permit modifications were discussed.

March 10, 2016, 6:00pm at the Rawlings library, the documentary "The Winds of Chemical Warfare" will be shown.

John Norton (BUG)

The salt cake testing was discussed.

Closing and Adjournment

Next Subcommittee meetings are tentatively scheduled: February 24, 2016 at 2:00pm District Attorney's Conference Room

Tentative Date for next CAC meeting: February 24, 2016 at 6:00PM Olde Towne Carriage House